

The National Academies of
SCIENCES • ENGINEERING • MEDICINE

DIVISION ON ENGINEERING AND PHYSICAL SCIENCES
AERONAUTICS AND SPACE ENGINEERING BOARD

COMMITTEE ON BIOLOGICAL AND PHYSICAL SCIENCES IN SPACE
December 13 – 14, 2016
Beckman Center – 100 Academy Drive – Irvine, CA
Huntington Room

DRAFT AGENDA

Tuesday December 13, 2016

CLOSED SESSION: 12 PM – 5 PM

Wednesday December 14, 2016

7:15 AM Gather in hotel lobby for carpool to Beckman

7:30 AM Meeting Room Opens (*Breakfast available in the Beckman Center Refectory*)

OPEN SESSION

8:30 AM **SLPSRA Program Overview and Status (ASGSR recording)** **Craig Kundrot, NASA**

9:00 AM **Discussion and Q&A** **Craig Kundrot, NASA (Via webex)**

9:40 AM **Physical Sciences Program** **Francis Chiaramonte, NASA (webex)**
- Overview, status and planning
- Research findings and challenges
- Update on MaterialsLab (and CombustionLab/FluidsLab efforts, etc.)
- PSI

10:25 AM **Discussion and Q&A** **Francis Chiaramonte and NASA**

11:00 AM *Break*

11:15 AM **Space Biology Program** **David Tomko, NASA**
- Status, planning, research findings, challenges
- Genelab Status

12:00 PM **Discussion and Q&A** **David Tomko and NASA**

12:30 PM *Lunch available in the Beckman Center Refectory, committee discussion will continue*

1:25 PM **Human Research Program** **Speaker TBD (via webex?), NASA**
- Status, planning, research findings, challenges

	- ISS countdown on countermeasures	
2:05 PM	Discussion and Q&A	Speaker and NASA
2:35 PM	Fundamental Physics Program	Brad Carpenter, NASA
3:05 PM	<i>Break</i>	
3:20 PM	Discussion of SLPSRA Concerns	Brad Carpenter and Angel Otero, NASA
	- Near term concerns and needs	
	- Transition Issues	
	- Mid-term study	
	- Microgravity research beyond ISS	
4:30 PM	Adjourn Open Session	
CLOSED SESSION		
5:30 PM	<i>Meeting Adjourns</i>	
5:35 PM	Return via carpool from Beckman to the hotel	

NOTES

Note to Observers: This meeting is being held to gather information to help the committee conduct its activities. The committee will examine the information and material obtained during open sessions in an effort to inform its work. Although opinions may be stated and lively discussion may ensue, no conclusions are being drawn at this time. Therefore, observers who draw conclusions about the committee's work based on discussions during this meeting will be doing so prematurely. Furthermore, individual committee members often engage in discussion and questioning for the specific purpose of probing an issue and sharpening an argument. The comments of any given committee member may not necessarily reflect the position he or she may actually hold on the subject under discussion, to say nothing of that person's future position as it may evolve in the course of the committee's activities

Note to Presenters: If your presentation contains unpublished data, ITAR controlled and/or other sensitive information, please be aware that the open sessions at the meeting will be webcast and presentation materials given to the committee may be posted on a publicly accessible website. Please edit your presentations accordingly.

Beckman Center: Is located on the campus of the University of California, Irvine, and is approximately 3 miles from Orange County/John Wayne Airport. See the following website for more information, including directions: <http://www7.nationalacademies.org/beckman/>.

Hotel: A block of rooms has been reserved for the committee's use at the XXX Hotel, ; phone: . Additional information, including directions can be found at the hotel's website: [url](#).

Working Dinner: The committee will hold a working dinner at a Restaurant to be determined, ; phone: . More information can be found at the restaurant's website: [url](#). All meeting participants can attend. The Academies can pay for members of the committee and guest speakers. Unfortunately, the

Academies cannot pay for federal employees. Cost of the dinner is \$50.00. Checks payable to the National Academy of Sciences preferred.

Breakfast and Lunch: Available free of charge to all committee members and guests in the refectory at the Beckman Center. Those meeting participants who are ethically bound to pay for these meals can do so if they wish: Breakfast \$15.00 and Lunch \$16.00. Checks payable to the National Academy of Sciences preferred.

Parking: There is plenty of free parking at the Beckman Center.

Airports: Orange County/John Wayne Airport (SNA) is about 2 miles from both the Beckman Center. Los Angeles International Airport (LAX) is about 40 miles from the meeting site. Long Beach Airport (LGB) is about 26 miles distant.

Save the Date! Meetings in 2017: The committee will hold its next meeting on Tuesday-Thursday, March 28-30, 2017 at the National Academy of Sciences, 2101 Constitution Ave. NW, Washington, D.C. 20418. The date of the autumn 2017 meeting is October 31 – November 2 at the Beckman Center, 100 Academy Way, Irvine, CA.